STL

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel 732 549 3900 Fax 732 549 3679
www.stl-inc.com

05/17/2007

ECC
63 Herb Hill Road
Glen Cove, NY 11542

Attention: Mr. Theodore Johnson

Laboratory Results
Job No. F973 - Li Tungsten

Dear Mr. Johnson:

Enclosed are the results you requested for the following sample(s) received at our laboratory on May 5, 2007.

Lab No.	Client ID	Analysis Required
826649	5601-FSS-PB-1016	As
		Pb
826650	5601-FSS-PB-1017	As
		Pb
826651	5601-FSS-PB-1018	As
		Pb
826652	5601-FSS-PB-1019	As
		Pb
826653	5601-FSS-PB-1020	As
		Pb
826654	5601-FSS-PB-1028	As

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Laboratory Results
Job No. F973 - Li Tungsten (cont'd)

Lab No.	Client ID	Analysis Required
		Pb

If you have any questions, please contact me at (732) 549-3900.

Very Truly Yours,

Michael Legg
Project Manager

Analytical Results Summary

Client ID: **5601-F55-PB-1016**
Site: **Li Tungsten**

Lab Sample No: 826649
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 15.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	7.4	1.1		P
Lead	14.7	0.64		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1017**
Site: **Li Tungsten**

Lab Sample No: 826650
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 11.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.5	1.1		P
Lead	4.7	0.61		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1018**
Site: **Li Tungsten**

Lab Sample No: 826651
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 14.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	2.8	1.1		P
Lead	9.5	0.63		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1019**
Site: **Li Tungsten**

Lab Sample No: 826652
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 6.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.9	1.0		P
Lead	9.1	0.58		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1020**
Site: **Li Tungsten**

Lab Sample No: 826653
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 9.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	4.3	1.0		P
Lead	25.9	0.59		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1028**
Site: **Li Tungsten**

Lab Sample No: 826654
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 9.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.9	1.0		P
Lead	4.9	0.60		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

General Information

Chain of Custody

F973

STL Edison

Chain of Custody Record

F973

ENVIRONMENTAL CHEMICAL CORPORATION
1746 Colorado Blvd., Suite 350
Lakewood, CO 80401
Phone: (303) 298-7607
Fax: (303) 298-7837

COC Number: _____

Customer Name: ECC - Li Tungsten
Address: 63 Herbhill Rd. Glen Cove, NY 11542
Contact: T. Johnson
Phone: 303-472-8834
Fax: 516-665-8531

ECC Project Manager: Glenn Henderson
Sampler Name: M. LaBarre
ECC Project Number: 5601
Customer Project Name: Li Tungsten

SAMPLE NUMBER	DATE	TIME	TYPE	CLIENT SAMPLE IDENTIFIER	TESTS	CONTAINER(S)	MATRIX
5601-FSS-PB-1016	5-4-07	1115	FSS	Parcel B	Total Lead & Arsenic	1 glass jar	Soil 82664
5601-FSS-PB-1017		1050					82665
5601-FSS-PB-1018		1105					82666
5601-FSS-PB-1019		1120					82667
5601-FSS-PB-1026		1125					82668
5601-FSS-PB-1028		1050					82669
				N/A			

Notes: Ship to: Severn Trent Laboratory, EDISON
777 New Durham Road, Suite 7, Edison, New Jersey 08817
Phone 732-549-3900
Request Turnaround Time: 7 Day
Sample cooled below 4°C

Laboratory Receipt Information
Cooler/Container Intact? Yes____ No____
Samples Received at below 4°C? Yes____ No____
Sample Containers Intact? Yes____ No____
Cooler/Container Custody Seal? Yes____ No____

CUSTODY TRANSFER RECORD

Relinquished by: (signature)	Company:	Date:	Time:	Received by: (signature)	Company:	Date:	Time:
M. LaBarre	ECC	5-4-07	1605		STL	5/5/07	11:40

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Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	F973	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	5/4/2007
Sample No.:	826649	**Date Received:**	5/5/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547
LEAD	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	F973	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	5/4/2007
Sample No.:	826650	**Date Received:**	5/5/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547
LEAD	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	F973	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	5/4/2007
Sample No.:	826651	**Date Received:**	5/5/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547
LEAD	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	F973	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	5/4/2007
Sample No.:	826652	**Date Received:**	5/5/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547
LEAD	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	F973	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	5/4/2007
Sample No.:	826653	**Date Received:**	5/5/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547
LEAD	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

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Job No:	F973	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	5/4/2007
Sample No.:	826654	**Date Received:**	5/5/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547
LEAD	5/8/2007	Sanagavarapu, Suguna	5/9/2007	Polidori, Michael	22547

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in “Methods for Chemical Analysis of Water and Wastewater” (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition); samples are digested according to Method 3050B “Acid Digestion of Soil, Sediments and Sludges.”

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method Furnace	Solid Test Method Furnace
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Hexavalent Chromium:

Water samples are analyzed using EPA Method 7196A, EPA Method 7199 or (upon request) USGS –1230-35. Soil samples are subjected to alkaline digestion via EPA Method 3060A prior to analysis by EPA Method 7196A or EPA Method 7199.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability - Method 1020A

Corrosivity - Water pH Method 9040B
Soil pH Method 9045C

Reactivity - Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release

Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 18th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than or equal to the method detection limit. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND/U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

\+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

Nonconformance Summary

STL Edison Job Number: F973

Client: ECC

Date: 5/17/2007

Sample Receipt:

Sample delivery conforms with requirements.

Metals:

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Director or their designee, as verified by the following signature.

Michael Legg

Project Manager

Metals Forms and Data

Analytical Results Summary

Client ID: **5601-F55-PB-1016**
Site: **Li Tungsten**

Lab Sample No: 826649
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 15.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	7.4	1.1		P
Lead	14.7	0.64		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1017**
Site: **Li Tungsten**

Lab Sample No: 826650
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 11.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.5	1.1		P
Lead	4.7	0.61		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1018**
Site: **Li Tungsten**

Lab Sample No: 826651
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 14.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	2.8	1.1		P
Lead	9.5	0.63		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1019**
Site: **Li Tungsten**

Lab Sample No: 826652
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 6.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.9	1.0		P
Lead	9.1	0.58		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1020**
Site: **Li Tungsten**

Lab Sample No: 826653
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 9.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	4.3	1.0		P
Lead	25.9	0.59		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-F55-PB-1028**
Site: **Li Tungsten**

Lab Sample No: 826654
Lab Job No: F973

Date Sampled: 05/04/07
Date Received: 05/05/07

Matrix: SOLID
Level: LOW
% Moisture: 9.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.9	1.0		P
Lead	4.9	0.60		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Blank Results Summary

BLANKS

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.7	U	4.7	U	4.7	U	4.7	U	0.470	U	P
Barium											NR
Beryllium											NR
Cadmium	0.6	U	0.6	U	0.6	U	0.6	U	0.060	U	P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	2.7	U	2.7	U	2.7	U	0.270	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: _F973 _____ Batch No.: 22547_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			4.7	U							P
Barium											NR
Beryllium											NR
Cadmium			0.6	U							P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			2.7	U							P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: _F973 _____ Batch No.: 22547_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.7	U	4.7	U	4.7	U					P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

Calibration Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: F973 _____ Batch No.: 22547_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum_									NR
Antimony_									NR
Arsenic__	5000.0	4844.23	96.9	5000.0	4919.02	98.4	4879.67	97.6	P_
Barium___									NR
Beryllium									NR
Cadmium__	2500.0	2428.31	97.1	2500.0	2472.21	98.9	2444.16	97.8	P_
Calcium__									NR
Chromium_									NR
Cobalt___									NR
Copper___									NR
Iron_____									NR
Lead_____	10000.0	9778.12	97.8	10000.0	9979.96	99.8	9818.55	98.2	P_
Magnesium									NR
Manganese									NR
Mercury__									NR
Nickel___									NR
Potassium									NR
Selenium_									NR
Silver___									NR
Sodium___									NR
Thallium_									NR
Vanadium_									NR
Zinc_____									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				5000.0	4912.79	98.3	4956.32	99.1	P
Barium									NR
Beryllium									NR
Cadmium				2500.0	2480.99	99.2	2490.33	99.6	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	9890.22	98.9	9921.55	99.2	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12028_ Lab Job No.: F973 Batch No.: 22547_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	5000.0	4956.06	99.1	5000.0	4880.76	97.6	4850.97	97.0	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

ICP Interference Check Results Summary

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	487968	482915.2	96.6	494874	488258.1	97.7
Antimony		100		85.5	85.5		100.7	100.7
Arsenic		100		97.8	97.8		98.5	98.5
Barium		100		102.5	102.5		103.6	103.6
Beryllium		100		96.6	96.6		97.5	97.5
Cadmium		100		94.6	94.6		96.0	96.0
Calcium	500000	500000	482475	478846.0	95.8	495529	483200.1	96.6
Chromium		100		94.1	94.1		95.6	95.6
Cobalt		100		94.3	94.3		96.2	96.2
Copper		100		97.4	97.4		97.4	97.4
Iron	200000	200000	200017	198564.9	99.3	204714	199866.4	99.9
Lead		100		91.8	91.8		97.7	97.7
Magnesium	500000	500000	523911	518883.1	103.8	535438	522746.7	104.5
Manganese		100		94.9	94.9		95.1	95.1
Mercury								
Nickel		100		95.4	95.4		98.5	98.5
Potassium								
Selenium		100		96.1	96.1		97.8	97.8
Silver		100		99.3	99.3		99.6	99.6
Sodium								
Thallium		100		89.7	89.7		91.1	91.1
Vanadium		100		92.9	92.9		95.5	95.5
Zinc		100		96.6	96.6		97.8	97.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	492136	492391.5	98.5	488908	502311.1	100.5
Antimony		100		90.4	90.4		101.3	101.3
Arsenic		100		99.4	99.4		101.2	101.2
Barium		100		104.0	104.0		106.7	106.7
Beryllium		100		97.7	97.7		99.8	99.8
Cadmium		100		94.0	94.0		95.4	95.4
Calcium	500000	500000	490619	483625.5	96.7	485537	493584.1	98.7
Chromium		100		95.8	95.8		97.5	97.5
Cobalt		100		95.5	95.5		97.8	97.8
Copper		100		99.5	99.5		101.5	101.5
Iron	200000	200000	202755	200470.6	100.2	200968	204705.1	102.4
Lead		100		102.7	102.7		101.2	101.2
Magnesium	500000	500000	529766	524943.2	105.0	525531	535467.6	107.1
Manganese		100		96.0	96.0		98.1	98.1
Mercury								
Nickel		100		97.0	97.0		101.2	101.2
Potassium								
Selenium		100		102.8	102.8		101.7	101.7
Silver		100		101.4	101.4		103.2	103.2
Sodium								
Thallium		100		96.2	96.2		90.1	90.1
Vanadium		100		95.6	95.6		97.6	97.6
Zinc		100		98.0	98.0		102.7	102.7

Spike Sample Recovery Summary

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

BSS050807

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	190.4491		0.4700	U	200.00	95.2		P
Barium									NR
Beryllium									NR
Cadmium	75-125	4.9970		0.0600	U	5.00	99.9		P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	49.5800		0.2700	U	50.00	99.2		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

826558MS

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	192.8800		3.3457		224.22	84.5		P
Barium									NR
Beryllium									NR
Cadmium	75-125	5.7608		0.8036	B	5.61	88.4		P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	67.3368		17.9469		56.05	88.1		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

Sample and MS Duplicate Results Summary

DUPLICATES

LAB SAMPLE NO.

LCSSD055-D

Lab Name: STL_EDISON

Lab Code: 12028_ Lab Job No.: __F973 Batch No.: 22547_

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: 100.0 % Solids for Duplicate: _100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		81.4710		79.3226		2.7		P
Barium								NR
Beryllium								NR
Cadmium		58.6666		57.8514		1.4		P
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		84.3774		82.0992		2.7		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

826558D

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.2 % Solids for Duplicate: 89.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		3.3457		3.8955		15.2		P
Barium								NR
Beryllium								NR
Cadmium	0.6	0.8036	B	0.7294	B	9.7		P
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead		17.9469		16.7596		6.8		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

Laboratory Control Samples Results Summary

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

Solid LCS Source: ERA D055

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				88.8	81.5		71.8	106.0	91.8
Barium									
Beryllium									
Cadmium				63.0	58.7		51.7	74.3	93.2
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				88.9	84.4		72.7	105.0	94.9
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Molybdenu									

Serial Dilution Summary

ICP SERIAL DILUTION

LAB SAMPLE NO.

826558L

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: F973 Batch No.: 22547

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic	14.92		23.50	U	100.0		P
Barium							NR
Beryllium							NR
Cadmium	3.58	B	3.00	U	100.0		P
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead	80.04		73.41		8.3		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

Analysis Run Log

ANALYSIS RUN LOG

Lab Name: STL_EDISON

Contract:

Lab Code: 12028_ Case No.:

SAS No.: SDG No.:22547_

Instrument ID Number: TRACE1 TJA61_

Method: P_

Start Date: 05/09/07

End Date: 05/10/07

Lab Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
1CAL-BLK	1.00	2242		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
T1CAL1__	1.00	2248		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
T1CAL2__	1.00	2253		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
T1CAL3__	1.00	2259		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
ZZZZZZ__	1.00	2305																									
ICV/CCV_	1.00	2310				X			X						X												
ICB/CCB_	1.00	2316				X			X						X												
ICSA____	1.00	2321				X			X						X												
ICSAB___	1.00	2327				X			X						X												
ZZZZZZ__	1.00	2332																									
ZZZZZZ__	1.00	2338																									
ZZZZZZ__	1.00	2344																									
SS050807	1.00	2349				X			X						X												
BS050807	1.00	2355				X			X						X												
LCSSD055	2.00	0000				X			X						X												
SSD055-D	2.00	0006				X			X						X												
826558D_	2.00	0011				X			X						X												
CCV______	1.00	0017				X			X						X												
CCB______	1.00	0023				X			X						X												
826558__	2.00	0028							X						X												
826558L_	2.00	0034				X			X						X												
826558MS	2.00	0039				X			X						X												
ZZZZZZ__	2.00	0045																									
826552__	2.00	0050													X												
826553__	2.00	0056													X												
826554__	2.00	0101													X												
826555__	4.00	0107							X						X												
826556__	2.00	0113							X						X												
826557__	2.00	0118							X						X												
CCV______	1.00	0124				X			X						X												
CCB______	1.00	0129				X			X						X												
826559__	2.00	0135							X						X												

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12028_ Case No.: _____ SAS No.: _____ SDG No.:22547_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 05/09/07 End Date: 05/10/07

Lab Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
826560	2.00	0140							X						X												
826561	2.00	0146													X												
826562	2.00	0152													X												
826563	2.00	0157													X												
826564	2.00	0203													X												
826649	2.00	0208			X										X												
826650	2.00	0214			X										X												
826651	2.00	0219			X										X												
826652	2.00	0225			X										X												
CCV	1.00	0231			X				X						X												
CCB	1.00	0236			X				X						X												
826653	2.00	0242			X										X												
826654	2.00	0247			X										X												
826495	5.00	0253													X												
ICSA	1.00	0258			X				X						X												
ICSAB	1.00	0304			X				X						X												
CCV	1.00	0310			X				X						X												
CCB	1.00	0315			X				X						X												

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12028_ Case No.: _____ SAS No.: _____ SDG No.:22547_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 05/10/07 End Date: 05/10/07

Lab Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	M O
1CAL-BLK	1.00	1009		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL1	1.00	1015		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL2	1.00	1020		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL3	1.00	1026		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
ZZZZZZ	1.00	1031																									
ICV/CCV	1.00	1037				X																					
ICB/CCB	1.00	1042				X																					
ICSA	1.00	1048				X																					
ICSAB	1.00	1053				X																					
ZZZZZZ	1.00	1059																									
ZZZZZZ	1.00	1104																									
ZZZZZZ	1.00	1110																									
826558	2.00	1122																									
ZZZZZZ	10.00	1134																									
ZZZZZZ	4.00	1140																									
ZZZZZZ	1.00	1145																									
ZZZZZZ	1.00	1151																									
CCV	1.00	1156				X																					
CCB	1.00	1202				X																					
ZZZZZZ	2.00	1208																									
ZZZZZZ	2.00	1214																									
ZZZZZZ	1.00	1219																									
ZZZZZZ	1.00	1225																									
ZZZZZZ	1.00	1230																									
ZZZZZZ	1.00	1236																									
ZZZZZZ	1.00	1241																									
ICSA	1.00	1247				X																					
ICSAB	1.00	1252				X																					
CCV	1.00	1258				X																					
CCB	1.00	1304				X																					

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